

NOTES ON THE FLORA OF KENTUCKY
NEW AND INTERESTING PLANTS IN KENTUCKY

RAYMOND CRANFILL¹ AND MAX E. MEDLEY

The flora of Kentucky must rank as one of the most neglected in the Eastern United States. Our ability to turn up so many records in such a short time is indicative of this situation. All regions of the state merit intensive study, especially the south central counties, and the Western Coalfields, whose swampland vegetation is being extensively decimated by strip mining activities.

During the past two years, the authors have collected extensively throughout the state. This field work has revealed several new state records and many others only reported once or twice before.

A taxon is considered new to Kentucky if absent from the large national herbaria (MO, NY, GH); the in-state University herbaria, including the University of Kentucky as well as others; Memphis State University Herbarium, and from the publications of Braun (1943), Browne and Athey (1977a, 1978), and McFarland (1942). All citations are arranged alphabetically under family. The families are arranged according to Radford, Ahles, and Bell (1968). The nomenclature follows Radford, Ahles, and Bell (1968) and Steyermark (1963). All species here-to-fore unreported from Kentucky are designated by an asterisk.

POACEAE

Melica nitens Nutt. JESSAMINE CO.: Abundant along exposed limestone cliffs, associated with *Juniperus virginiana*, behind the National Cemetery, ca. 1.0 km west of US 27, *Cranfill 4407*. This is the first report of this species from Kentucky since that of Short, Peter, and Griswold (1833).

CYPERACEAE

Cyperus albomarginatus Mart. et Schrad. ex Nees. BALLARD CO.: Abundant along mud flat of empounded slough in the Ballard County Wildlife Area, *Cranfill 2804* (! R. Kral). Previously reported by Browne and Athey (1978).

¹Present Address: Division of Biological Sciences, University of Michigan, Ann Arbor, Michigan

***Cyperus iria** L. BALLARD CO.: Ballard County Wildlife Refuge, *Cranfill* 2805. HICKMAN CO.: Sandy ditches along Ky 307 near Murphy's Pond, *Cranfill* 3022. FULTON CO.: Along roadside ditch, Ky 94, *Cranfill* 3016. CALLOWAY CO.: In moist seepage area adjacent to cemetery, Ky 651 north of Murray, *Cranfill* 3058. JEFFERSON CO.: Field off Knop's Cave, *Davies s.n.* A showy, rapidly spreading weed, native to the old world.

***Fimbristylis miliacea** (L.) Vahl. BALLARD CO.: Abundant along mud flats of empounded slough in Ballard County Wildlife Area, with *F. autumnalis* and *Cyperus albomarginatus*, *Cranfill* 2803. (! R. Kral). A common pest in the rice fields of Louisiana and Arkansas, previously reported no closer to Kentucky than s. central Tennessee and north-eastern Arkansas (Kral, 1971).

PONTEDERIACEAE

Pontederia cordata L. HARDIN CO.: Natural Pond along Ky. Lincoln Trail, now extirpated by development, no specimen. HART CO.: Abundant in 100 Acre Pond, *Cranfill* 3537. Although reported by McFarland, no duplicates remain to voucher its occurrence in the state due to the disastrous herbarium fire of 1948.

LILIACEAE

Maianthemum canadense (L.) Desv. HARLAN CO.: Large sandstone boulder in shade of yellow birches, Cumberland Mt., 5 mi east of Ewing, Va., elevation 1100 m, *Cranfill* 2716. BELL CO.: Along moist creek bank below Sand Cave, Cumberland Mountain, elevation 1000 m, *Cranfill* 2783. Previously reported by Browne and Athey (1977b) from Menifee County.

Trillium undulatum Willd. BELL CO.: In dry woods under *Rhododendron* and *Pinus rigida*, above Sand Cave, Cumberland Mt., elevation 1000 m, *Cranfill* 2721.

Veratrum parviflorum Michx. BELL CO.: Abundant in mesic woods above Martin's Fork on Cumberland Mt., near the White Rocks campsite, elevation 1000 m, *Cranfill* 2725. Previously reported only from Black Mountain (Harlan Co.) by Braun (1943).

ORCHIDACEAE

***Spiranthes magnicamporum** Sheviak. HARDIN CO.: Scattered at the base of shaley outwashes amongst grasses in a glade-prairie on the lip of Muldraugh's Hill, *Cranfill H-1664* (! Sheviak). This very late blooming orchid (October 22) is characterized by its lack of leaves at anthesis, as well as an odiferous, more compact inflorescence than *S. cernua*. Characteristic of the Prairie Peninsula, this record represents a considerable range extension southward from its nearest known stations in central Illinois and northern Indiana.

ARISTOLOCHIACEAE

***Hexastylis shuttleworthii** (B. & B.) Small BELL CO.: Infrequent on moist springy slopes under hemlock, white pine, and yellow birch along side slope of Shileleh Creek, Cumberland Mt., *Cranfill 2553*. Reed (1965) does not mention this species from Kentucky.

CARYOPHYLLACEAE

***Arenaria groenlandica** var. **glabra** (Michx.) Fern. HARLAN CO.: Cumberland Mt., sandstone exposures at the White Rocks, 5 km east of Ewing, Va., elevation 1100 m, *Cranfill 2722*.

***Paronychia argyrocoma** (Michx.) Nutt. HARLAN CO.: On sandstone exposures at the White Rocks, Cumberland Mt., 5 km east of Ewing Va., elevation 1100 m, *Cranfill 2715*.

Silene ovata Pursh HARLAN CO.: Pebbly talus at the south west end of the White Rocks, Cumberland Mt., 5 km east of Ewing, Va. *Cranfill 2723*,. Abundant. WARREN CO.; Southeast side of Shanty Hollow lake, *Nicely 3106*. This represents an amazing disjunct from the Cumberland Mountains.

Silene regia Sims. HARDIN CO.: Along Ky 720, weedy roadside with *Poa pratense* and *Silphium pinnatifidum*, *Cranfill H1036*. Previously reported by Braun (1943). The corolla possesses the most brilliant crimson of any of our native wildflowers.

RANUNCULACEAE

Aconitum uncinatum L. MENIFEE CO.: Sandy bank of the Red River about 2m above normal flow level, with *Xanthorhiza* and *Tsuga*,

Meijer & Cranfill s.n. KNOX CO.: 2 km E of Corbin, between east fork of Lynn Camp Creek and the L. & N. Railroad Tracks, about 40 plants with 10 in flower, sandy alluvium of old creek terrace under river birch, *J. MacGregor & H. Bryan s.n.* Previously reported by Braun (1943) for Lewis County.

Thalictrum mirabile Small POWELL CO.: On gr near rock ledge on medium to high levels, *C. Weller s.n.* WARREN CO.: Sandstone rockhouse, Shanty Hollow along the Green River, northwest corner of the County, *Nicely s.n.* An endemic of sandstone rockhouses, so far limited to Kentucky and northern Alabama.

BRASSICACEAE

Leavenworthia uniflora (Michx.) Britt. HARDIN CO.: Cedar glade along Yates Chapel Rd., 1 km south of Howe Valley, *Cranfill H943*. PULASKI CO.: Rocky pasture on south side of Ky 1003, ca. 2 km east of its junction with Ky 80, *Cranfill 4239*. For the status of this plant, see Baskin and Baskin (1978).

SAXIFRAGACEAE

Boykinia aconitifolia Nutt. MCCREARY CO.: Sphagnum seep on sandstone cliff ledge, Eagle Falls, Cumberland Falls State Park, *Cranfill 2735*. Perhaps the same station as reported by Braun—the only known locality in Kentucky today.

ROSACEAE

***Sorbus arbutifolia** var. **arbutifolia** (L.) Heynhold MCCREARY CO.: In wet seepage area along small creek near junction of old and new US 27, *Cranfill & Medley 3441*. This species has been variously considered to be a *Pyrus* or an *Aronia*.

ACERACEAE

Acer pennsylvanicum L. PIKE CO.: Pine Mt. along Ky 197 in mesophytic woods at Blue Head Rocks, *Cranfill 2597*. HARLAN CO.: Cumberland Mt. on east slope below the White Rocks, *Cranfill 2732*. BELL CO.: Cumberland Mt. near White Rocks overlook, *Cranfill 2733a*.

MALVACEAE

***Sida hermaphrodita** (L.) Rusby GREENUP CO.: Along side creek of Gray's Branch near the Ohio River, *MacGregor & Bryan s.n.* This species, like *Paxistima canbyi*, appears to be a relict of the old Teay's River drainage system.

ONAGRACEAE

Oenothera linifolia Nutt. BRECKINRIDGE CO.: Over-grown pastures and barren area long abandoned county road bed, 0.2 to 0.5 mi south of Cedar Hill Cemetery, Irvington, *Ratliff 555*. (! P. Raven). Another ozarkian disjunct to the eastern Dripping Springs Escarpment.

***Proserpinaca pectinata** Lam. HARDIN CO.: In open marshy area of swamp forest, now being logged, just east of Walter Boone Rd., 0.5 km south of its junction with Ky 220, *Cranfill H1506*. A remarkable disjunct with nearest localities in Coffee County, Tennessee. Since this collection the site has been clear cut and is now extensively grazed.

BORAGINACEAE

***Onosmodium occidentale** Mack. LIVINGSTON CO.: Dry limestone slope, east of US 60, ca. 2 km north of Smithville, *Cranfill 4631*. TODD CO.: In pasture, north side of Cow Creek Rd., ca. 2 km east of Kirkmansville, *Cranfill 3051*. This species was not reported by Das (1965) for Kentucky.

SCROPHULARIACEAE

***Melampyrum lineare** Desv. BELL CO.: White Rocks overlook, Cumberland Mt., 5 km east of Ewing Va., *Medley & Cranfill 069-78*. There is an old record of this species from Menifee Co. in the herbarium at the University of Louisville collected by B. B. McInteer.

ASTERACEAE

Gutierrezia dracunculoides (D.C.) Blake TODD CO.: Abundant over some hundreds of acres of pastureland along Ky 171, ca. 8 km south of Allegre, *Cranfill 3121*. Although still rare in the state (see Baskin &

Baskin, 1972), this species has a potential to become a pernicious weed.

***Solidago radula** Nutt. HARDIN CO.: Along south side of Eastview-Summit Rd. in clearing near where the road crosses to the south of the L. & N. Railroad, *Medley & Cranfill* 283-78.

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R.C.

HERBARIUM

UNIVERSITY OF KENTUCKY

LEXINGTON, KY 40506

M.E.M.

KENTUCKY NATURE PRESERVES COMMISSION

407 BROADWAY

FRANKFORT, KY 40601